

FIG.1. Flow diagram of the solving engineering problems in TechOptimizer (prior Art)

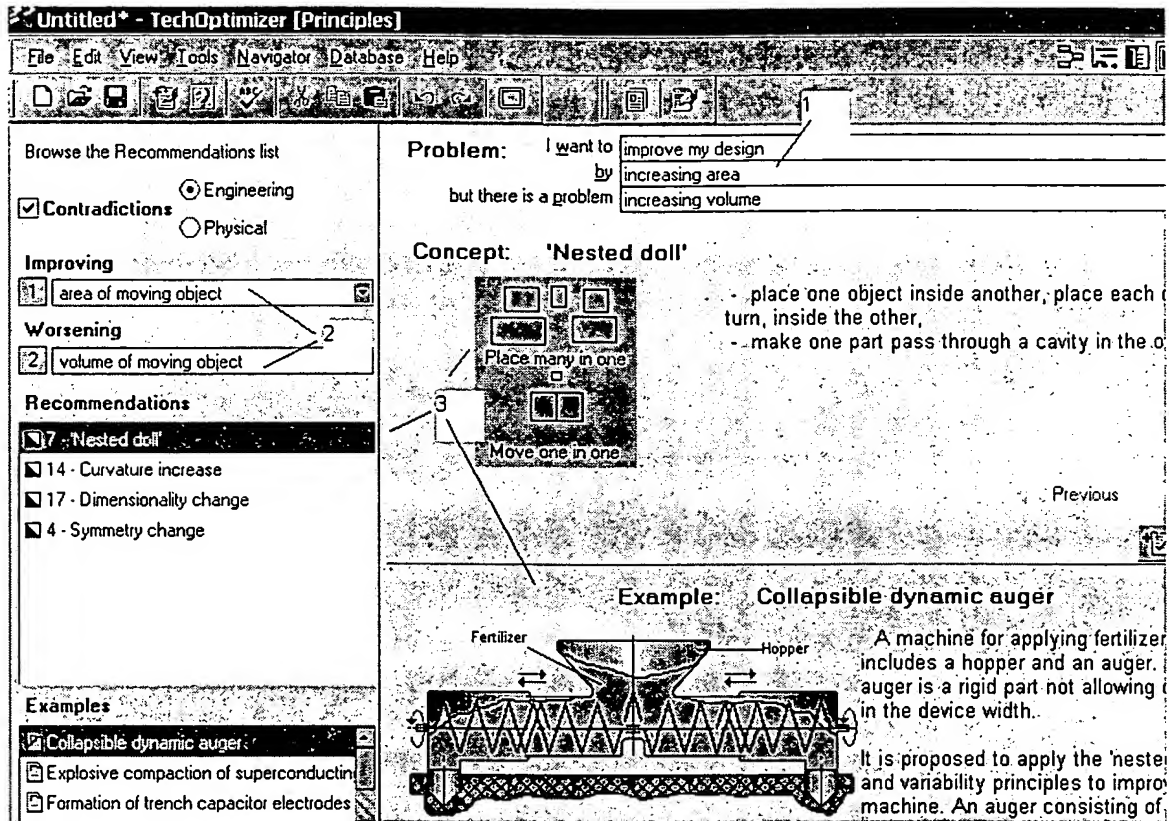


FIG.2. Illustrative screen for a search query and for a search response in

TechOptimizer (Prior Art). Numbers correspond to steps of Figure 1.

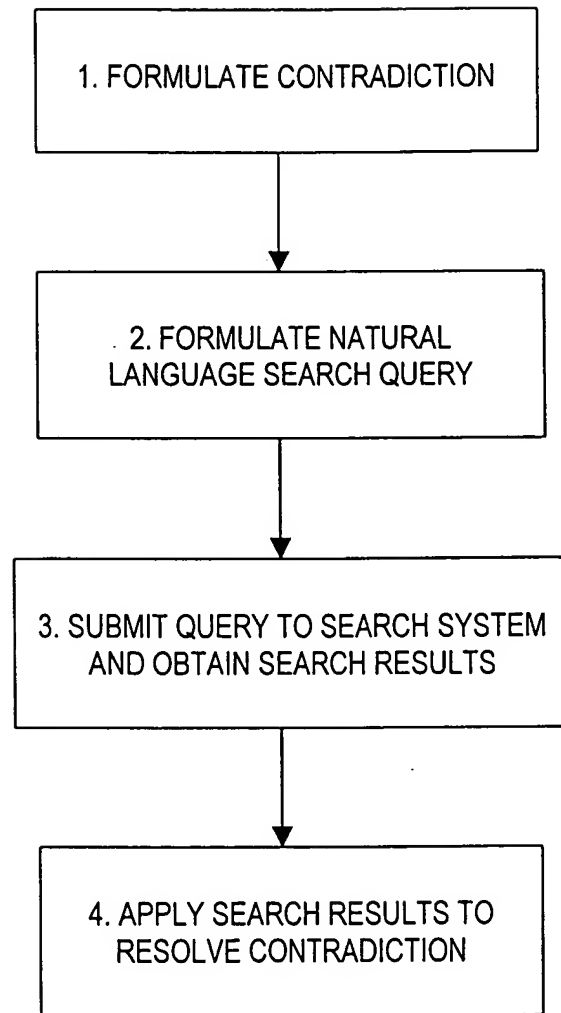


FIG.3. Flow diagram of a system in accordance with the principles of this invention

1, 2

3

How can we increase area, and decrease volume? <in> FTXT Find

Your query was processed as a Natural Language expression. [Click here](#) to process the query as a Boolean expression.

Sentence Index	Patent List	58 most relevant result(s).	Topics
Try synonyms: <u>accrue</u> , <u>accrue to</u> , <u>augment</u> , <u>enhance</u> , increase , <u>maximise</u> , <u>maximize</u> , <u>rise</u> <u>bring down</u> , decrease , <u>diminish</u> , <u>get down</u> , <u>lessen</u> , <u>let down</u> , <u>lower</u> , <u>minify</u> , <u>minimize</u> , <u>move down</u> , <u>More...</u>			
Most relevant: 4 1. ② The folded or shaped top woven wire mesh or perforated sheet 5 increases its surface area and decreases the volume of a heat exchanging space which will thereby reduce the overall pressure drop when in service. <u>US-20030019613 A1</u> Heat exchangers that contain and utilize fluidized small solid particles ② 2 most relevant and 6 related result(s) from this document 2. ② In the use of an oxypolycarboxylic acid, a hard aqueous alumina gel is formed, and this alumina gel increases specific surface area of the alumina composition but decreases pore volume thereof. <u>US-20030044348 A1</u> Alumina composition, method for preparation thereof and use thereof ② 1 most relevant and 75 related result(s) from this document 3. ② Since low pressure in the receptacle causes the receptacle to collapse, and this collapse decreases the volume within the receptacle and increases the exposed area of the refrigerant to the contents, for example a beverage, this increase in the surface area of contact...		Most relevant: surface area (13) volume (9) pore volume (3) void volume (3) effective shaft cross ... (3) area (3) cylinder gas volume (3) volume of area (2) volume of space (2) surface area of ... (2) surface area of ... (2) surface area of ... (2)	

FIG.4. Illustrative screen for a search query and for a search response in a system in accordance with the principles of this invention. Numbers correspond to steps of Figure 3.